TK SERIES

FREESTANDING SPEAKERS

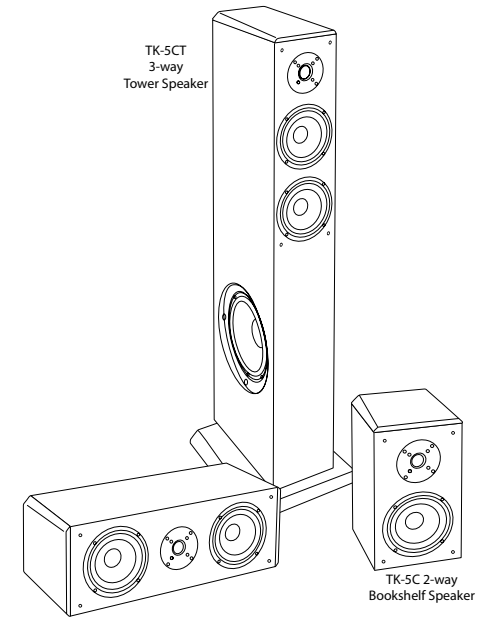
Installation & Operation Manual

Introduction

Congratulations on your purchase of RBH Sound freestanding speakers! Your speakers are the result of many years of research and development dedicated to producing high quality products for home audio and audio/video systems.

This manual contains features, setup recommendations and specifications for the **TK-5CT, TK-515C and TK-5C** freestanding speakers. We recommend you thoroughly read through the material contained in this manual before connecting your speakers. This will ensure you have a good understanding of how to setup your speakers for optimum performance and allow for years of listening enjoyment.

TK Series Speakers



Break-in Period

Allow 10-15 hours of listening time to adequately break-in the TK Series speakers. As the speakers break-in, the driver suspension will loosen. The result of break-in will be an increase in low frequency response, improved definition, and increased clarity and detail.

Care and Cleaning

To maintain speaker appearance, we recommend wiping them down with a clean damp soft cloth. To clean dust from the grille cloth, use a vacuum with a brush attachment.

Features

At the heart of the TK Series speaker system is a proprietary fiberglass cone bass/midrange driver (speaker). The fiberglass cone resists flexing better than typical speaker cone materials, thereby providing highly articulate and accurate reproduction of the audio signal. The stiffness and lightweight characteristics of fiberglass, combined with the driver's large motor structure, give the drivers high excursion capability. This high excursion capability prevents compression or distortion of the audio signal, which leads to higher overall sound quality. The smaller drivers and tweeters in the TK speaker system are video shielded to cancel any stray magnetic fields which may cause interference with video equipment such as CRT televisions.

A high quality soft dome tweeter is used for high frequencies in the TK Series. Higher power handling is achieved through the use of Ferro Fluid® liquid cooling in the tweeter. To protect the tweeter against being over driven, a Polyswitch (a DC current limiting device) is incorporated in the crossover network.

Each TK Series model features an extensive crossover network. The use of these high quality crossover networks allows each speaker to operate at its optimal performance. Steep acoustic crossover slopes are used to integrate the drivers; the use of steep crossover slopes allow higher power handling, minimizes driver interaction irregularities, and maximizes the ability of each driver in their respective band of frequencies. Large 5-way binding posts ensure a good, solid electrical connection to these crossover networks.

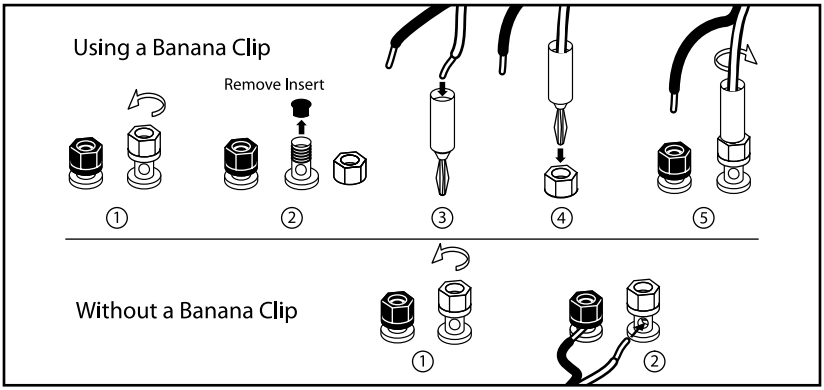
The TK Series cabinets are constructed of ¾-inch medium density fiberboard because of its inert properties, thereby preventing sound coloration due to cabinet diffraction. The thickness of the front baffles also prevents excess acoustic radiation.

Attaching Speaker Wires

When using a banana jack to attach speaker wires to the binding post terminals, remove the black and red plastic protective inserts from the terminals. To do this, loosen the binding nut from the terminal by turning the nut counter-clockwise until the nut is completely removed from the terminal. Remove the plastic inserts by pulling them straight out, then replace the nut to the terminal and turn clockwise. Insert the banana jack into the hole provided in the top of the terminal, and then continue to tighten the nut until secure. Repeat for the other speaker wire(s) as necessary.

Attaching Speaker Wires (continued)

If not using a banana jack, simply loosen the binding nut to allow the hole in the side of the terminal to become exposed. Strip ¼-inch of the insulation from the end of the speaker wire and insert the exposed wire end into the now exposed hole in the side of the terminal. Tighten the binding nut by turning the nut clockwise until the speaker wire is secured. Repeat for the other speaker wire(s) as necessary.



Room Setup Suggestions

In order to extract the best possible sound from your speaker system, it is important to determine where the speakers will sound best in your listening room. Room reflections from the floor, ceiling and side walls influence the balance, imaging and overall sonic quality at the listening position. Experiment with speaker placement to determine which location offers the best overall sound. As a general guide, use the room layout diagram and the following the descriptions when setting up a home theater system. Some speakers shown in the diagram may not always be applicable to your individual system.

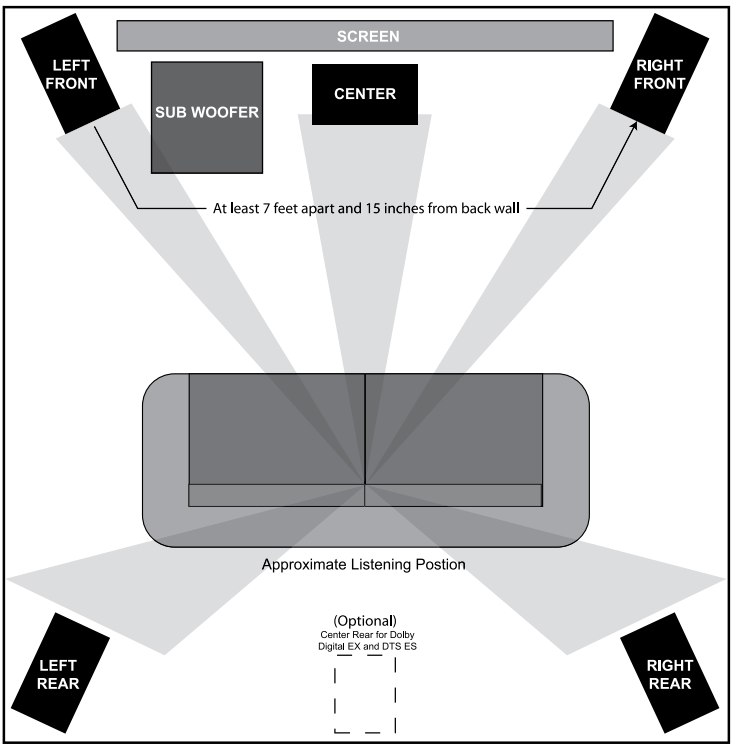
Front Main Speakers
As a starting point, place your left and right TK-5CT Tower Speakers at least 15 inches from the wall and 7 feet apart from each other. The distance from the listening position to each speaker should be close to the distance that separates the two main speakers. Angling the speakers inward towards the listening position may give a more spacious and realistic sound stage.

Center Channel Speaker
The TK-515C Center Channel Speaker should be placed in the center between both left and right main speakers. Often this positioning dictates placing the speaker either directly above or below a television monitor. Since the TK-515C is video shielded, the center speaker may be placed in close proximity to a television without cause for concern. The TK-515C Center Channel Speaker may be placed in a horizontal (lying down) or vertical (standing) position.

Room Setup Suggestions

Rear Surround Speakers
The TK-5C 2-way Bookshelf Speakers may be placed either above, behind or to the sides of the listening position. The listening position should be centered between the surround speakers. For best performance you may want to experiment with angling the surround speakers either towards or away from the listening position.

Subwoofer
Placement of the subwoofer will largely determine quality, quantity, and extension of the bass frequencies within your listening room. Bass frequencies are reinforced by close room boundaries. Placing the subwoofer in a corner will make the subwoofer sound louder and boost the very lowest frequencies. Placing the subwoofer away from walls will provide the least reinforcement, making the bass sound subjectively thinner than if the woofer were close to a wall. Good results can usually be obtained by placing a subwoofer along a wall 1-3 feet from a corner. Experiment with subwoofer placement and the sub-amplifier controls to achieve the proper bass balance.



NOTE: There are several different surround formats available. Dolby Pro-Logic, Pro-Logic II, Dolby Digital and DTS generally have a 5 speaker plus subwoofer requirement. Dolby Digital EX and DTS ES add a center rear speaker. Please consult your audio/video professional to determine which system is best for you and how many speakers you will require.

Specifications

Model	TK-5CT	TK-515C	TK-5C
Frequency Response:	45Hz – 20Hz	60Hz – 20Hz	60Hz – 20Hz
Sensitivity:	87dB	89dB	86dB
Power Handling:	150 Watts	120 Watts	100 Watts
Woofer:	8" Kraft Pulp Woofer Dual 5¼" Fiberglass Mid-Range Woofers	Dual 5¼" Fiberglass Mid-Range Woofers	5¼" Fiberglass Mid-Range Woofer
Tweeter:	1" Fabric Dome Tweeter	1" Fabric Dome Tweeter	1" Fabric Dome Tweeter
Impedance:	8 Ohms	8 Ohms	8 Ohms
Crossover Frequencies:	120Hz / 3000 Hz	3000 Hz	3000 Hz
Dimensions:	Height: 42.5" Width: 11" Depth: 13¼"	Height: 7⅛" Width: 20¾" Depth: 8½"	Height: 12¾" Width: 7⅛" Depth: 8½"
Finish:	Black or Rosewood with gloss black top/side accents	Black or Rosewood with gloss black top/side accents	Black or Rosewood with gloss black top/side accents
Weight:	40	17	11

Troubleshooting

Situation:	Probable Cause:	Solution:
No sound from speakers	Speaker wire not connected	Make sure wire is connected at both the speaker and the amplifier observing proper polarity
	Speaker selector on amplifier is not on	Activate proper selector on amplifier
No sound from one speaker	Balance control on receiver or pre-amp is not centered	Place balance control in the center
	Speaker wire not securely connected	Check all connections at amplifier and speakers
Very little bass and/or imaging	Speakers are wired out of phase	Check entire system for proper polarity and make adjustments as necessary

Warranty

Your RBH Sound TK Freestanding Speakers are covered by a limited warranty against defects in materials and workmanship for a period of 5 years from the original date of purchase. This warranty is provided by the authorized RBH Sound dealer where the speaker was purchased. Warranty repair will be performed only when your purchase receipt is presented as proof of ownership and date of purchase. Defective parts will be repaired or replaced without charge by your dealer's store or the location designated by your dealer authorized to service RBH Sound products. Charges for unauthorized service and transportation cost are not reimbursable under this warranty. This warranty becomes void if the product has been damaged by alteration, misuse or neglect. The warrantor assumes no liability for property damage or any other incidental or consequential damage whatsoever which may result from the failure of this product. Any and all warranties of merchantability and fitness implied by law are limited to the duration of this express warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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